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Industrial Control System (ICS) - Correct Answer-
A device or set of devices that manage commands directs or regulates the behaviour of other devices or system, bridges cyber to physical, a device that can influence the real world

Relays - Correct Answer-
An electrically operated switch. Complicated to configure cumbersome and expensive

Pneumatics - Correct Answer-
The technique of using gases for power transmission.

Control Loops - Correct Answer-
calculating and controlling an environment or process based on feedback.

Proportional Integral Derivative (PID) - Correct Answer-
a control loop feedback mechanism (controller) widely used in industrial control systems. Calculates an error value as the difference between a measured process variable and a desired setpoint.

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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q43-Q48):

NEW QUESTION # 43

How are general purpose Programmable Logic Controllers (PLC) different than smart field devices?

- A. Smart field devices cannot be controlled centrally from a management server
- B. Programmable Logic Controllers are usually microcontroller-based
- C. Smart field devices contain their own control logic that cannot be changed
- D. **Programmable Logic Controllers have a more limited purpose and function**

Answer: D

Explanation:

General-purpose PLCs are designed to perform a wide range of control tasks, programmed to execute complex control logic and interact with multiple I/O points, making them versatile controllers in industrial automation.

In contrast, smart field devices (like smart transmitters or actuators) are typically dedicated to specific measurement or control functions and may have embedded intelligence for self-calibration, diagnostics, or simple control, but with a more limited purpose and function (C).

(A) is incorrect because smart field devices often can be managed remotely.

(B) is true but not a differentiating functional characteristic.

(D) is incorrect; smart field devices often have configurable logic or settings.

GICSP training differentiates these device classes to tailor cybersecurity controls effectively.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

NIST SP 800-82 Rev 2, Section 3 (ICS Components and Control Devices)

GICSP Training on ICS Device Types

NEW QUESTION # 44

What is an output of a Business Impact Analysis?

- A. Understanding all of the business's technology functions
- B. **Prioritizing the business's processes**
- C. Calculating the financial impact of a technology failure
- D. Determining the maximum time that systems can be offline

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A Business Impact Analysis (BIA) primarily produces a prioritization of the business's processes (B) based on their criticality and impact on organizational goals.

While BIAs help understand downtime tolerance (A) and financial impacts (C), prioritization is the core output guiding recovery efforts.

Understanding technology functions (D) is part of broader asset and risk management but not the primary BIA output.

GICSP highlights BIA as essential for aligning ICS recovery priorities with business needs.

Reference:

GICSP Official Study Guide, Domain: ICS Risk Management

NIST SP 800-34 Rev 1 (Contingency Planning Guide)

GICSP Training on Business Impact Analysis

NEW QUESTION # 45

In the context of ICS the process of fuzzing a device is described as which of the following?

- A. Brute force password attacks against default accounts
- B. Monitoring device performance in varying power conditions
- C. Providing invalid, unexpected, or random data as inputs
- D. Monitoring device performance in harsh environmental conditions
- E. Launching all known exploits at the device in a randomized sequence

Answer: C

Explanation:

Fuzzing (C) is a security testing technique that involves sending invalid, unexpected, or random inputs to a device or application to discover vulnerabilities like buffer overflows or crashes.

Brute force attacks (A) target authentication, not input validation.

Launching known exploits (B) is penetration testing but not fuzzing.

(D) and (E) describe environmental or stress testing.

GICSP highlights fuzzing as a proactive testing method to uncover ICS device vulnerabilities.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response OWASP Fuzzing Resources GICSP Training on Vulnerability Assessment Techniques

NEW QUESTION # 46

Which of the following is a protocol that will provide control center-to-control center SCADA communications in a situation where each of the control centers implement a different vendor-supplied protocol internally?

- A. MMS
- B. ICCP
- C. BACnet
- D. Modbus/TCP
- E. DNP3

Answer: B

Explanation:

ICCP (Inter-Control Center Communications Protocol) (A) is designed for control center-to-control center communication and interoperability, especially when different internal vendor protocols are used.

DNP3 (B) and Modbus/TCP (D) are primarily used for control center to field device communications.

BACnet (C) is for building automation.

MMS (E) is a messaging standard but less commonly used for inter-control center communications.

GICSP highlights ICCP as critical for interoperability across heterogeneous ICS networks.

Reference:

GICSP Official Study Guide, Domain: ICS Security Architecture & Design

IEEE and IEC Protocol Standards

GICSP Training on ICS Communication Protocols

NEW QUESTION # 47

Which of the following is located in user mode of a typical realtime OS, but in kernel mode of a typical standard OS?

- A. Interprocess communication
- B. Device drivers
- C. Virtual memory
- D. Process scheduling

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In many real-time operating systems (RTOS), interprocess communication (IPC) mechanisms (A) operate in user mode to minimize latency and overhead.

In typical standard operating systems, IPC is usually handled by the kernel (kernel mode) for security and control.

Virtual memory (B), device drivers (C), and process scheduling (D) are typically kernel mode in both OS types.

GICSP covers these architectural differences important in ICS device security and performance.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Real-Time Systems Literature

GICSP Training on Operating Systems in ICS

NEW QUESTION # 48

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